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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/709,889 06/03/2004		Manabu Hashikura	39.043 3888		
29453	29453 7590 08/23/2005		EXAMINER		
00000111	TENT FIRM	NGUYEN, DAO H			
	HUKUGAWA 3RD FL. MATSU-CHO	ART UNIT	PAPER NUMBER		
	IYA-SHI, HYOGO, 6	2818			
JAPAN				DATE MAILED: 08/23/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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SI	

	Application No.	Applicant(s)				
	10/709,889	HASHIKURA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Dao H. Nguyen	2818				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of the period of the period for reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing - earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timy within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE.	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 11/0:	<u>1/2004</u> .					
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This action is non-final.						
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-10 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.					
Application Papers						
9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 03 June 2004 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	D accepted or b)⊠ objected to drawing(s) be held in abeyance. Seetion is required if the drawing(s) is obj	e 37 CFR 1.85(a). / lected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)  1) ☑ Notice of References Cited (PTO-892)  4) ☐ Interview Summary (PTO-413)						
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>1104</u>.</li> </ol>	Paper No(s)/Mail Da					

#### **DETAILED ACTION**

In response to the communications dated 06/03/2004 through 11/01/2004, claims
 1-10 are active in this application.

## **Acknowledges**

2. Receipt is acknowledged of the following items from the Applicant.

Information Disclosure Statement (IDS) filed on 11/01/2004. The references cited on the PTOL 1449 form have been considered.

Applicant is requested to cite any relevant prior art if being aware on form PTO-1449 in accordance with the guidelines set for in M.P.E.P. 609.

# Foreign Priority

3. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

#### **Drawings**

4. The drawings are objected to for the following reasons.

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The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description: Reference character "4" in figures 1. A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application.

### **Specification**

5. The specification is objected to for the following reason:

In the specification, the title should be placed on top of all parts. Therefore, the word "Description" should be placed below or after the title.

The abstract of the disclosure is objected to because it is not on a single sheet. The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

6. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

# Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

8. Claim(s) 1-10 are rejected under 35 U. S. C. § 102 (b) as being anticipated by U.S. Patent No. 6,508,884 to Kuibira et al.

Regarding claim 1, Kuibira discloses a holder 1 for use in semiconductor or liquid-crystal manufacturing devices, as shown in figs. 1-7, comprising:

a ceramic susceptor 10b&14; and

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a composite of a ceramic 10a and a metal (col. 10, lines 53-63) furnished atop said ceramic susceptor 10b&14. See also col. 9, line 1 to col. 11, line 14.

Regarding claim 2, Kuibira discloses the holder wherein the Young's modulus of the ceramic-and-metal composite is 300 GPa or less. This is inherent properties of ceramic.

Regarding claim 3, Kuibira discloses the holder wherein the thermal conductivity of the ceramic-and-metal composite is 100 W/mK or more. See col. 5, lines 13-27.

Regarding claim 4, Kuibira discloses the holder wherein the thermal expansion coefficient of the ceramic-and-metal composite is 2.5x10<sup>-6</sup> to 8.0 x10<sup>-6</sup> /°C. See col. 5, line 54 to col. 6, line 3.

Regarding claim 5, Kuibira discloses the holder further comprising a support part 2 supporting the ceramic-and-metal composite. See figs. 1-2.

Regarding claim 6, Kuibira discloses the holder further comprising a support part 2 supporting the ceramic susceptor. See figs. 1-2.

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Regarding claim 7, Kuibira discloses the holder further comprising a support part 2 supporting both the ceramic-and-metal composite and the ceramic susceptor. See figs. 1-2.

Regarding claim 8, Kuibira discloses the holder wherein a coating 14b (fig. 7) is formed on at least a processed-object-retaining side of the holder 1. Note that as shown in fig. 7, holder 1 comprising a ceramic susceptor 14a, a composite of ceramic 10a and metal 12 furnished atop the ceramic susceptor 14a, with a coating 14b on top of metal layer 12.

Regarding claim 9, Kuibira discloses the holder wherein the ceramic-and-metal composite functions as an electrode. See col. 9, lines 1-53.

Regarding claim 10, Kuibira discloses the semiconductor or liquid-crystal manufacturing device in which the holder is installed. See figs. 1-2.

#### Conclusion

9. A shortened statutory period for response to this action is set to expire 3 (three) months and 0 (zero) day from the day of this letter. Failure to respond within the period for response will cause the application to become abandoned (see M.P.E.P 710.02(b)).

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10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dao H. Nguyen whose telephone number is (571)272-1791. The examiner can normally be reached on Monday-Friday, 9:00 AM – 6:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571)272-1787. The fax numbers for all communication(s) is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571)272-1625.

Supervisory Patent Examiner
Technology Center 2800

Dao H. Nguyen Art Unit 2818 August 19, 2005